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DIALOG(R)File 351: Derwent WPI

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Fire-resistant electrical wire formed by coating silicone polymer composition including fine silica powder on conductor as fire resistant layer and extrusion coating insulator onto fire-resistant layer

Patent Assignee: YAZAKI CORP (YAZA)

Inventor: SUHARA S

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| JP 2001035267 A | 20010209 | JP 1999207694 | A | 19990722 | 200118 B |

Priority Applications (no., kind, date): JP 1999207694 A 19990722

| Patent Details | | | | | | | |
|----------------|------|-----|-----|------|--------------|--|--|
| Patent Number | Kind | Lan | Pgs | Draw | Filing Notes | | |
| JP 2001035267 | A | JA | 8 | 6 | | | |

Alerting Abstract JP A

NOVELTY - Fire-resistant electrical wire is formed by coating a silicone polymer composition including fine silica powder on a conductor as a fire resistant layer and extrusion coating an insulator onto the fire-resistant layer.

DESCRIPTION - An INDEPENDENT CLAIM is also included for a fire-resistant cable where a sheath layer is formed on the wire by extruding a fire-resistant olefin resin layer on the insulator. USE - Used in manufacturing electrical cables which are fire resistant.

ADVANTAGE - Cracking in the fire-resistant layer during combustion are reduced.

DESCRIPTION OF DRAWINGS - Figure 1 shows the wire (drawing contains non-English text).

- 2 Conductor
- 4 Insulator
- 12 Fire-Resistant Layer
- (16 Insulation Core Wire
- 17 Inclusion
- 18 Winding Tape
- 19 Sheath
- 20 Cable

Technology Focus

POLYMERS - Preferred Materials: The silicone polymer composition includes 50-300 weight parts fine mica powder and 0-20 weight parts inorganic fibre material based on 100 weight parts silicone polymer. The mica powder has a diameter of up to 150 microns and a thickness of up to 10 microns.

Basic Derwent Week: 200118